

WHAT IS CLAIMED IS:

1. A high efficiency heat sink comprising:
at least one U-shaped copper tube with open ends;
a sealed vacuum vessel, with orifices into the vessel communicating with
the open ends of the copper tubes;
5 fibers which are strongly absorbent and are impregnated with a
refrigerated liquid are disposed in the vessel.

2. The heat sink of claim 1, wherein the vessel has an upper end region and
the orifices communicating with the u-shaped copper tube in the upper end region of the
vessel.

10 3. The heat sink of claim 1, further comprising an externally mounted
cooling fan aimed at the copper tube for blowing over the copper tube.

4. The heat sink of claim 3, further comprising a supporting frame for the
copper tube and the fan being supported on the frame to one side of the copper tube.

15 5. The heat sink of claim 1, wherein the vacuum vessel includes an upper
half casing and a lower half casing which are secured together.

6. The heat sink of claim 5, wherein the lower half casing includes a
projecting level surface for communicating with an object for heat transfer.

7. The heat sink of claim 6, wherein the upper half casing includes orifices
for the open ends of the copper tube.

20 8. The heat sink of claim 5, further comprising a sealing ring for sealing the upper and lower casing halves together.

 9. The heat sink of claim 8, wherein the sealing ring is comprised of a silicone gel which seals the vessel when the upper and lower half casing are compressed together.

25 10. The heat ^{sink} sensor or claim 1, wherein the highly absorbent fiber includes an inhibited glycol as the refrigerating liquid.

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